

uFR Online NFC Reader - Android

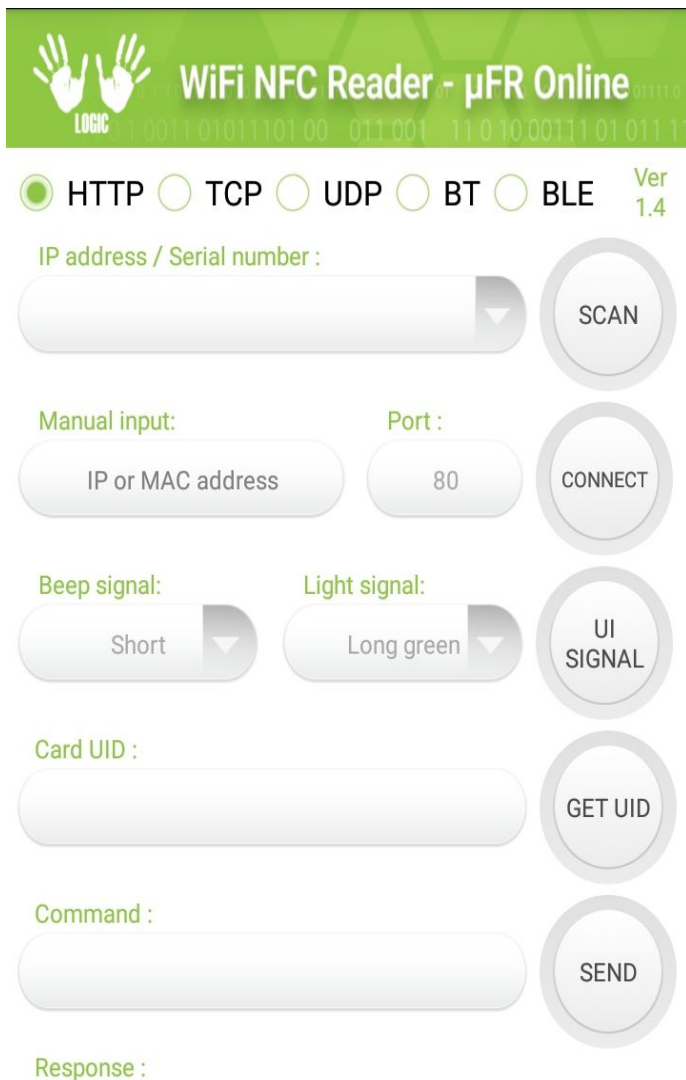
1.4 version

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Application preview

At the beginning, application will ask you to allow access to device's location. Please allow it to be able to scan uFR Online device's in Bluetooth mode successfully.



WiFi NFC Reader - μ FR Online

☒ HTTP
 ☐ TCP
 ☐ UDP
 ☐ BT
 ☐ BLE
 Ver 1.4

IP address / Serial number :

SCAN

Manual input: Port :

IP or MAC address 80 CONNECT

Beep signal: Light signal:

Short Long green UI SIGNAL

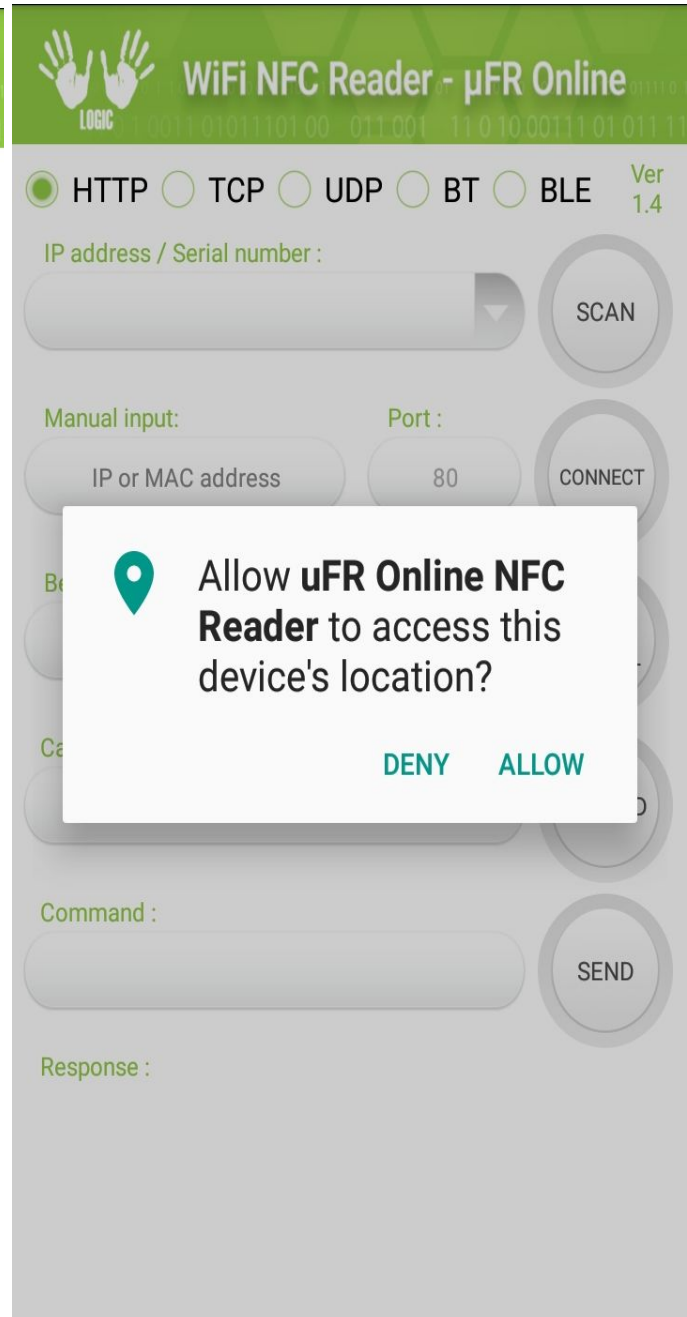
Card UID :

GET UID

Command :

SEND

Response :



WiFi NFC Reader - μ FR Online

☒ HTTP
 ☐ TCP
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 Ver 1.4

IP address / Serial number :

SCAN

Manual input: Port :

IP or MAC address 80 CONNECT

Beep signal: Light signal:

Short Long green UI SIGNAL

Card UID :

GET UID

Command :

SEND

Response :

Allow uFR Online NFC Reader to access this device's location?

DENY ALLOW

Options

Click on 'SCAN' button to see available uFR Online readers. Notice that you have to be connected at the same network as readers. If you can't find reader ip address by clicking 'SCAN' button, you have an option to manually input ip address. If ip address is manually entered, application will take that ip for work, if field for manual ip address input is empty, application will use ip address from dropdown list.

When you select reader's ip address from drop down list and click button 'GET UID' you will be able to see card's uid in text field.

On button 'UI SIGNAL' you will be able to hear sound from buzzer and alternation light signal.



The screenshot shows the application interface for the 'WiFi NFC Reader - uFR Online'. At the top, there is a green header with a logo and the title. Below the header, there are radio buttons for selecting the communication protocol: HTTP (selected), TCP, UDP, BT, and BLE. To the right of these buttons is the version number 'Ver 1.4'. Below the protocol selection, there is a label 'IP address / Serial number :'. A dropdown menu is open, showing a list of available readers with their IP addresses and serial numbers. To the right of the dropdown is a 'SCAN' button. Below the dropdown list, there are three more buttons: 'Connected' (green), 'UI SIGNAL', and 'GET UID'. At the bottom, there are two text input fields labeled 'Card UID :' and 'Command :', and a 'SEND' button. A 'Response :' label is at the very bottom.

WiFi NFC Reader - uFR Online

☒ HTTP ☐ TCP ☐ UDP ☐ BT ☐ BLE Ver 1.4

IP address / Serial number :

192.168.1.81 / ON101390

192.168.1.81 / ON101390

192.168.1.99 / ON101494

192.168.1.116 / ON101362

SCAN

Connected

UI SIGNAL

GET UID

SEND

Card UID :

Command :

Response :

The same thing will happen if you choose UDP or TCP/IP communication protocol. If HTTP protocol is selected, then port is always 80 by default.

If UDP or TCP/IP protocol is selected, you can modify the port by yourself. Note that if you work with HTTP, TCP/IP or UDP connection, button "CONNECT" will turn to "Connected" and it will become green.

You can also type hexadecimal command from uFR COM protocol to send it to reader. Simply type the command and click 'SEND' button. The picture below shows USER_INTERFACE_SIGNAL command sent to reader:

WiFi NFC Reader - uFR Online

☒ HTTP
 ☐ TCP
 ☐ UDP
 ☐ BT
 ☐ BLE
 Ver 1.4

IP address / Serial number : 192.168.1.81 / ON101390 SCAN

Manual input: 192.168.1.81 Port : 80 Connected

Beep signal: Short Light signal: Long green UI SIGNAL

Card UID : A5BF76F9 GET UID

Command : 55 26 AA 00 01 01 XX SEND



Response : DE26ED0000001C




You can also send command with delimiters and if you want automatic checksum calculation you can type 'XX' as the last byte in your command.

Bluetooth

Before you start to use application with uFR Online readers in Bluetooth mode, you need to pair them with your phone. uFR Online devices in Bluetooth Serial mode have prefix “_BT” and devices in Bluetooth Low Energy mode have prefix “_BLE” in their name after serial number.

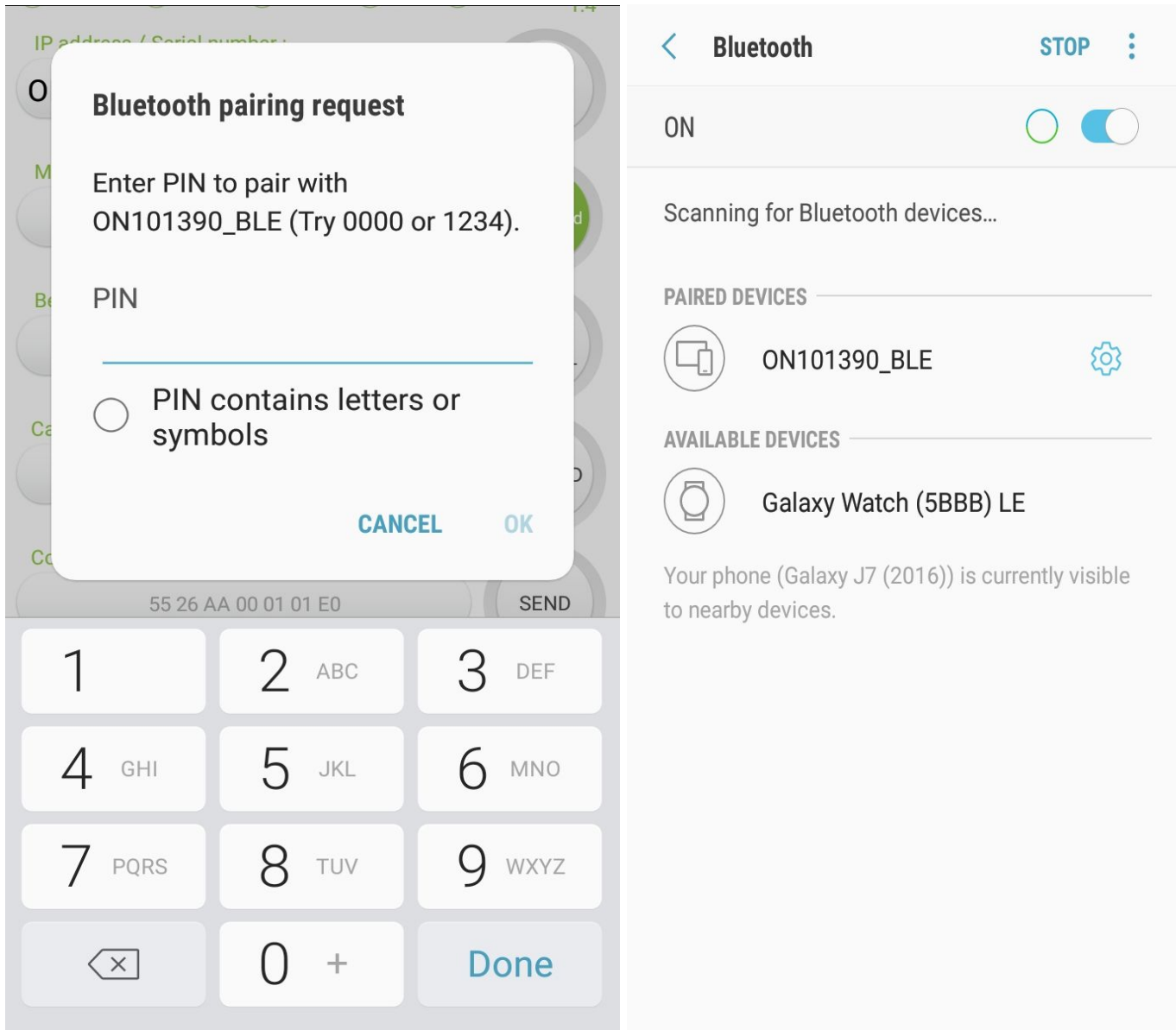
Bluetooth serial pairing

Bluetooth	SCAN	
ON		
Make sure your Bluetooth device is in pairing mode to connect.		
AVAILABLE DEVICES		
	ON101390_BT Pairing...	
Your phone (Galaxy J7 (2016)) is currently visible to nearby devices.		


Bluetooth	SCAN	
ON		
Make sure your Bluetooth device is in pairing mode to connect.		
PAIRED DEVICES		
	ON101390_BT	
AVAILABLE DEVICES		
No devices found		
Your phone (Galaxy J7 (2016)) is currently visible to nearby devices.		

Bluetooth Low Energy pairing

In Bluetooth Low Energy pairing, when you select device you want to pair with it, you need to type device's PIN for pairing.



If you click on BT or BLE radio button application will ask for permission to turn Bluetooth ON, if it isn't already turned ON. After turning Bluetooth ON, you will be able to click "SCAN" button to see paired uFR Online readers with your phone. Choose device you want to work with and click "CONNECT" button.


WiFi NFC Reader - μFR Online

☐ HTTP ☐ TCP ☐ UDP ☒ BT ☐ BLE Ver 1.4

IP address / Serial number :

Manual input:

Port :


Beep signal:

Light signal:

Card UID :

Command :

Response :
 DE26ED0000000000000000000000000000


WiFi NFC Reader - μFR Online

☐ HTTP ☐ TCP ☐ UDP ☐ BT ☒ BLE Ver 1.4

IP address / Serial number :

Manual input:

Port :

Beep signal:

Light signal:

Card UID :

Command :

Response :

When you click "CONNECT" button, wait until device is connected, and then you will be able to work with uFR Online reader. If device is successfully connected "CONNECT" button will become green.



☐ HTTP
 ☐ TCP
 ☐ UDP
 ☒ BT
 ☐ BLE
 Ver 1.4

IP address / Serial number :

ON101390_BT A4:CF:12:40:30:...

SCAN

Manual input:

A4:CF:12:40:30:06

Port :

80

Connected

Beep signal:

Short

Light signal:

Long green

UI
SIGNAL

Card UID :

A5BF76F9

GET UID

Command :

55 26 AA 00 01 01 E0

SEND

Response :

DE26ED0000001C



☐ HTTP
 ☐ TCP
 ☐ UDP
 ☐ BT
 ☒ BLE
 Ver 1.4

IP address / Serial number :

ON101390_BLE A4:CF:12:40:30:...

SCAN

Manual input:

A4:CF:12:40:30:06

Port :

80

Connected

Beep signal:

Short

Light signal:

Long green

UI
SIGNAL

Card UID :

A5BF76F9

GET UID

Command :

55 26 AA 00 01 01 E0

SEND

Response :

DE26ED0000001C

Revision history



Digital Logic

Date	Version	Comment
2019-06-17	1.4	Base document